<u>Listing of the Claims</u>

This listing of claims will replace all prior versions and listings of claims in the application:

Please amend the claims as follows:

(Currently Amended) A method of forming a bone composite, comprising:
providing bone tissue;

grinding said bone tissue to form <u>osteoinductive</u> ground bone tissue including an organic matrix;

molding the <u>osteoinductive</u> ground bone tissue into a solid bone composite structure;

applying a binder to the bone composite; and curing the bone composite into a solid structure <u>that will maintain a solid structure after hydration</u>.

- 2. (Original) The method of claim 1, wherein the bone tissue is substantially cortical bone tissue.
- 3. (Original) The method of claim 2, wherein the bone tissue is substantially demineralized.

- 4. (Original) The method of claim 2, wherein the bone tissue is greater than 50% cortical bone tissue.
- 5. (Original) The method of claim 2, wherein the bone tissue is greater than 70% cortical bone tissue.
 - 6. (Original) The method of claim 1, wherein the ground bone tissue is greater than 90% cortical bone tissue.
 - 7. (Original) The method of claim 1, wherein the ground bone tissue is greater than 95% cortical bone tissue.
 - 8. (Currently Amended) The method of claim 1, wherein the ground bone tissue is ground to a size ranging from 125 to 850 microns in size.
 - 9. (Original) The method of claim 1, wherein the molding step occurs at from 14.7 p.s.i. to about 30,000 p.s.i.

- 10. (Original) The method of claim 1, wherein the binder is applied to the ground bone before the molding step.
- 11. (Original) The method of claim 1, where the binder is applied to the ground bone after the molding step.
- 12. (Original) The method of claim 1, wherein the binder is applied by an injection, spray, bath, soaking or layering.
- 13. (Original) The method of claim 1, wherein the binder comprises fibrin.
- 14. (Original) The method of claim 1, wherein the binder comprises cyanoacrylates.
- 15. (Currently Amended). The method of claim 12 14, wherein the cyanoacrylates comprise ester chain, N-butyl, or butyl cyanoacrylates.
- 16. (Currently Amended). The method of claim 12 14, wherein the cyanoacrylates are long chain cyanoacrylates.

17. (Original) The method of claim 1, wherein the bone composite solid structure is a bone pin, screw or prosthesis.

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- 18. (Original) The method of claim 1, wherein the molding step further comprises the application of pressure and shaping the composite with a die.
- 19. (Withdrawn).
- 20. (Previously Canceled).
- 21-31 (Withdrawn).

ground bone tissue,

32. (Currently Amended) A method of forming an implantable bone composite structure, comprising:

providing bone tissue,

grinding said bone tissue to a size of from 125 to 850 microns in size to form

that will maintain a solid structure after hydration.

molding the ground bone tissue under pressure to form a bone composite structure,

introducing a cyanoacrylate binder to the bone composite, and allowing the bone composite to solidify into a <u>force bearing</u> solid structure

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